



## PENNSYLVANIA

### FOREST SERVICE RESEARCH AND DEVELOPMENT

STATE FUNDING HISTORY	Enacted FY 2003 (\$)	Enacted FY 2004 (\$)	Pres. Budg. FY 2005 (\$)
<b>NEWTOWN SQUARE</b>			
NE-4455 Global Change	2,302,823	1,339,453	1,435,429
NE-4801 Forest Inventory and Analysis NE-4801 Monitoring Methods	6,341,000	7,824,000	7,742,000
NE-4XXX Director's Office (Agenda 2020)	171,000	168,892	168,892
<b>NEWTOWN SQUARE TOTAL</b>	<b>\$8,814,823</b>	<b>\$9,332,345</b>	<b>\$9,346,321</b>
<b>WARREN</b>			
NE-4152 Ecology/Mgmt Allegheny Forests	1,016,185	1,223,666	1,350,747
<b>PENNSYLVANIA TOTAL</b>	<b>9,831,008</b>	<b>10,556,011</b>	<b>10,697,068</b>

**RESEARCH & DEVELOPMENT**, a division of the USDA Forest Service (FS R&D), strives to be the "go to" organization for information and solutions to sustain forests and rangelands and the values they provide people. FS R&D has the flexibility to address today's issues effectively and to respond to tomorrow's needs. Among the world's leaders in forest conservation research, scientists contribute to the stewardship of land, real property and society by providing research results that help create jobs and affordable homes, and improve the health of trees, forests and forest ecosystems. Innovative research products permit the Forest Service and other public and private land managers to monitor and manage forest responses to environmental change, contributing significantly to the sustainability of the nation's forests and rangelands and improving human health.

FS R&D operates six research stations, the Forest Products Laboratory, and the International Institute of Tropical Forestry located in Puerto Rico. It employs over 500 scientists and hundreds of technical and support personnel at 67 field sites throughout the nation. The FY 2005 President's Budget includes \$280,654,000 for Forest and Rangeland Research.

The **Northeastern Research Station**, headquartered at Newtown Square, Pennsylvania, maintains forest and rangeland research and development programs across 13 northeastern states (i.e. CT, DE, MD, MA, NJ, NY, NH, ME, OH, PA, RI, WV, and VT). The FY 2005 President's Budget for the Northeastern Research Station is \$34,697,000. The Northeastern Research Station maintains one research work unit in Warren,

Pennsylvania and two programs headquartered in Newtown Square.

#### **NEWTOWN SQUARE**

**NE-4801, Forest Inventory and Analysis.** This unit performs forest inventories and evaluations in 13 states to provide resource information for the Northeast region as a whole and the constituent states. Project scientists also perform special analyses of specific resource issues and concerns. In doing so, these scientists are providing national leadership on land ownership studies and urban forest inventory techniques.

**NE-4455, Global Change Program.** The program supports research, development, and application to anticipate, understand, monitor, and manage the change in ecosystems which results from air pollution and climate change. The purpose is to research the productivity and health of the region's forests; improve the understanding of forest/atmosphere interactions by the scientific community; and develop effective, adaptive, and mitigative strategies for resource managers.

#### **WARREN**

**NE-4152, Research to Develop Guidelines and Indicators for Sustaining Forest Ecosystems of Pennsylvania and the Adjacent Allegheny Plateau Region.** This unit is developing a basic understanding of forest ecosystems and creating guidelines that will help landowners and managers sustain Allegheny Plateau forests and the many values they support. Research is specifically focused on: (1) Regeneration and forest renewal; (2) stand dynamics and silviculture; and (3) the decline of sugar maples in the region.

#### **FY 2005 PROGRAM CHANGES:**

- An increase of \$245,000 for research on watersheds will improve soil carbon monitoring techniques and help develop nationally consistent protocols for efficient forest carbon monitoring.
- Forest Service Research and Development will lead an Agency-wide effort to optimize the delivery and practical use of research findings. This is essential to successful implementation of Forest Service priorities, including the President's Healthy Forest Initiative. Opportunities have been identified that leverage current science and technology applications efforts in healthy forests applied science, watershed management, invasive species, hazardous fuels utilization and management, and community preparedness. New funds in FY 2005 will be targeted to leading-edge technical assistance on a competitive basis.

#### **SIGNIFICANT RESEARCH PRODUCTS:**

- The Station published a report that included the second panel of data from the annualized survey conducted in Pennsylvania.
- The Station's Global Change Program continued to advance understanding of forest carbon cycling. Significant progress was made in developing accounting rules and guidelines for reporting and registering carbon sequestration accomplishments under the Department of Energy's 1605(b) program.
- The role of forests in protecting water quality of the Chesapeake and Delaware Bays was highlighted, and preliminary decision-support tools were developed for land managers.

- Research on deer is a contributing factor in changes in deer management within Pennsylvania.

**SOME CLIENTS/COOPERATORS:**



Allegheny National Forest  
American Forests & Paper Association  
Auburn University  
Audubon Society  
Kane Hardwoods, Inc.  
Monongahela National Forest  
Pennsylvania Bureau of Forestry  
Pennsylvania Game Commission  
Pennsylvania State University  
U.S. Congress  
U.S. Government Departments and Agencies